GRAPHIC COMMUNICATIONS TECHNOLOGY 10

Description

This course introduces students to many careers associated with graphic communications. Areas which will be explored are desktop publishing, scanning, page layout, computer operations, design fundamentals, computer to digital duplicating in an array of single and two color works with emphasis on color design. Also, various bindery operations (folding, paper cutting, collating, stitching, tape and spiral binding) will be explored. There are fun and practical projects created in this course are T-*shirts, magazine covers, posters, notebooks, colored post cards, note pads, note cube, stationery and decals.*

Course Overview			
 Course Objectives Students should be able to: use safely and efficiently, the resources, processes, concepts, and tools of the graphic communications industry. understand and apply practical technological methods with a hands-on approach to graphic production. develop the ability to design utilizing computer software and produce these designs utilizing production technologies. develop a vocabulary for use in the graphic communications field. 	 Why is it important to understand the history of the graphics and design industry and explore emerging trends and technologies? Why is it necessary to identify safety and 	Assessments <u>Projects</u> <u>Quizzes and Tests on Unit Material</u> 	

Content Outline	Standards	
I. <u>Unit 1</u> – Professional Careers and Ethics	https://www.georgiastandards.org/standards/Geo	
II. $\underline{\text{Unit 2}}$ – Environmental Health and Safety	rgia%20Performance%20Standards%20CTAE/I	
	ntroduction%20to%20Graphics%20and%20Des	
for Croubic Communications	ign-gd.pdf	
IV. <u>Unit 4</u> - Design and Layout	<u>ISH Super</u>	
V. <u>Unit 5</u> - Typography	https://www.georgiastandards.org/standards/Geo	
VI. Unit 6 - Graphic Output Processes	rgia%20Performance%20Standards%20CTAE/	
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Pacing Guide						
	1st Mark	ing Period			2nd Marking Period	
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
Professional Careers and Ethics	Environmental Health and Safety	Basic Math and Measurements for Graphic Communications	Design and Layout	<u>Typography</u>	Graphic Output Processes	Bindery and Finishing Operations
2 weeks	2 weeks	4 weeks	1 week	3 weeks	3 weeks	3 weeks

Unit 1– Professional Careers and Ethics, 2 weeks top

<u>Standards</u>

- ACCT-IGD-1 Students will explore the different careers available in the field of graphic communications and the design industry.
- ACCT-IGD-2 Students will identify key developments and individuals relating to the history of the graphics and design industry and explore emerging trends and technologies.
- ACCT-IGD-3 Students will examine the professional and ethical issues involved in the graphics and design industry.

<u>Unit Objectives</u>	Essential Question	Assessments
 Students will be able to: compare and contrast careers in graphics and design, along with their education, training requirements, and salary ranges. demonstrate understanding of education and career development as a lifelong learning process. 	 Why is it important to understand the history of the graphics and design industry and explore emerging trends and technologies? Focus Questions What careers are available in the field of graphic communications and the 	 Quizzes on Unit subject matter Projects using the computer: Develop a list of career opportunities within the graphics/design industry. Research gender and diversity issues in print/graphics industry. Research and present information on industry focus and trends. Create a timeline of the history of printing. Design and produce an art product, request a copyright, and use copyright guidelines for registering the product
 describe the development of the printing industry. explain ethics issues for the graphics/design business. 	 design industry? What is the importance of understanding ethics issues for the graphics/design business? What are consequences of copyright infringement? 	Students will:

ACCT-IGD-7 Students will identify safety a	nonstrate how to operate equipment in a safe man and health procedures utilized in the classroom/lab	
Unit ObjectivesStudents will be able to:• explain and demonstrate safety procedures	 Essential Questions Why is it necessary to identify safety and health procedures utilized in the classroom/lab 	 Assessments Projects Quizzes and Tests on Unit Material
 in the field of graphic communications. explain the importance of following all regulations for workplace safety. 	environment?How is each of us ultimately responsible for safety in the work/lab environment?	
		 Skill Objectives Students will: identify safety features. describe proper personal protection equipment needed identify procedures for handling hazardous and combustible materials. identify location of safety and first aid equipment. identify procedures for emergency situations. identify procedures for handling hazardous and combustible materials (MSDS, OSHA). describe OSHA, MDSD, and EPA. describe Lockout and Tagout. explain Right to Know.

	ts. tilize paper and assorted substrates for commercial ou nanipulate various graphic imaging processes. ply typographic and design concepts.	ıtput.
 Students will be able to: utilize calculating skills, units, and 	• Why are calculating skills, units, and measurements fundamental to a career in Graphic	ProjectsQuizzes and Tests on Unit Material
 measurements fundamental to a career in Graphic Communications and Design. investigate efficient production methods to minimize paper waste during jobs determine size, weight, quantities, type, and amount of paper necessary for fulfilling a job order manage resolution issues examine and construct documents with multiple measurement systems used in the field (including inches and picas). position images on substrates using appropriate measurements understand adjustments that may be needed in the equipment and materials used for output. 	 Communications and Design? Focus Questions Why is it essential to calculate price of materials before beginning a project? What difference does it make to discern appropriate use of technology in areas of color and design? Why does one need to understand and accurately execute measurement conversions? 	 Skill Objectives Students will: calculate price of materials used in commercial jobs. identify linear, liquid, weight, and area measuring units. select paper that fulfills work order and determine cost. discern appropriate use of technology in areas of color and design choices. evaluate photographic digital input techniques for maximum effect. assess the issues of sizing images in various forms. select and use appropriate type composition techniques involving leading, tracking, kerning, scaling, and aligning based on job particulars. understand and accurately execute measurement conversions. determine and use proper imposition to save materials used in multi-page and multi-piece projects.

Unit 4 – Design and Layout, 1 week top

Standards

ACCT-IGD-13. Students will understand and demonstrate how to design a page layout.

ACCT-IGD-14. Students will identify the five elements incorporated in basic graphic designs and will understand the application of effective color usage.

ACCT-IGD-15. Students will identify and produce files utilizing different digital formats.

ACCT-IGD-16. Students will identify and demonstrate page layout terminology and tools.

ACCT-IGD-17. Students will identify and understand the differences in page layout, raster based photo manipulation, and vector based graphic software applications.

Unit Objectives Essential Questions	Assessments
 Unit Objectives Students will be able to: understand and demonstrate how to design a page layout. discern how to incorporate the five elements in basic graphic design and will assess the application of effective color usage. understand the difference between primary, secondary, and complimentary colors. create documents /images and demonstrate the ability to save as digital files. demonstrate use of traditional and computer generated tools in the production of page layout. identify and demonstrate use of basic design principles. identify and understand the differences in page layout, raster based photo manipulation, and vector based graphic software applications. 	 Projects Quizzes and Tests on Unit Material Skill Objectives Students will: demonstrate how to log-on/boot-up, save, and print using a page layout program. design and produce a document using desired fonts, formatting, margins, indents, tabs, gutters, header and footer, guides, trims, folds, and proper leading. set up column grids for page layout according to job specifications. set up and select appropriate pagination for a given job.

 produce digital files using appropriate DPI and PPI resolution for media. identify and demonstrate use of layout methods/stages: (1) Thumbnail, (2) Rough, and (3) Comprehensive. define and identify the differences between raster and vector based software. demonstrate the ability to properly integrate text and images in a computer generated page layout. demonstrate the ability to properly alter and enhance an image
 demonstrate the ability to properly alter and enhance an image using a raster based photo manipulation software application.
 demonstrate the ability to create a logo utilizing a vector based software application.

Unit 5 – Typography, 3 weeks top

<u>Standards</u>

ACCT-IGD-18 Students will explore the origins of type by examining the evolution of letterforms.

ACCT-IGD-19 Students will evaluate the function of typeface design in supporting legibility in a variety of media applications.

Unit ObjectivesEssential QuestionAssessmentsStudents will be able to:• How does the function of typeface design impact a message?• Projects • Quizzes and Tests on Unit Material• explore the origins of type by examining the evolution of letterforms.• How does the function of typeface design in supporting legibility in a variety of media applications.• How do current communication technologies impact a message?• Skill Objectives Students will:• evaluate the function of typeface design in supporting legibility in variety of media applications.• Why is readability such a key concept in graphicSkill Objectives Students will:	
 explore the origins of type by examining the evolution of letterforms. evaluate the function of typeface design in supporting legibility in a design in supporting legibility in a for a dot of the process of the proces of the process of the process of the process of the process of	
 examining the evolution of letterforms. evaluate the function of typeface design in supporting legibility in a formation of typography in graphic design? How do current communication technologies impact the role of typography in graphic design? Skill Objectives Students will: define the terms "pictograms" and "ideograms" 	
 letterforms. evaluate the function of typeface design in supporting legibility in a formation of typography in graphic design? Focus Questions How do current communication technologies impact the role of typography in graphic design? Skill Objectives Students will: define the terms "pictograms" and "ideograms" 	
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communication? • outline the evolution of alphabet, punctuation, u	pper case
• What role do different types of media play in the use letters, lower case letters, and ligatures as element	
of typography? typography and explain the effect of each in its	ľ
development.	ľ
• identify and describe how current communication	n
technologies impact emerging trends in typogra	
• define the concept of "mood and theme" in type	graphy.
• identify effects applied to typefaces to achieve	
"readability" and evaluate when each is – or is t	ot –
appropriate to use.	ľ
• identify five major type categories and define	ľ
distinguishing characteristics of each.	
• identify the four methods of alignment and desc	ribe how
each impacts the presentation of type.	
• identify the three forms of presentation for type	aces
(packaging, signage, and multimedia) and descr	
each medium defines the legibility of typeface.	

Unit 6- Graphic Output Processes, 3 weeks top

Standards

ACCT-IGD-20 Students will explore the different print processes.

ACCT-IGD-21 Students will explore the different electronic imaging processes.

 Students will be able to: explore the different print processes. explore the different electronic imaging processes. 	print industry in communication of ideas?	 Quizzes and Tests on Unit Material Skill Objectives Students will: create printed products by using at least two different print processes from design to completion. describe the differences between the processes used. identify the steps in making an image using one process. demonstrate an understanding of the terms and technology of these processes. create images by using an electronic media process from concept to delivery.
	in the development of new processes of outputs?Why is it important to understand the impact of current and emerging technologies in graphic	 identify the steps in making an image using one process. demonstrate an understanding of the terms and technology of these processes. create images by using an electronic media process

Unit 7 – Bindery & Finishing, 3 weeks top

Standards

ACCT-GDP-16 Students will identify binding processes, describe the binding processes, and demonstrate the ability to bind a printed product. ACCT-GDP-18 Students will identify, demonstrate, and practice proper, safe paper cutting techniques on various class projects.